## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **LISTING OF CLAIMS:**

Claims 1-17 (cancelled).

- 18. (New) A diagnostic circuit for a treble loudspeaker of a loudspeaker combination, the diagnostic circuit, comprising:
- a high frequency (HF) signal-generating device configured to output an HF voltage signal;
- at least one terminal for the loudspeaker combination;
- a measuring resistor that, upon connection of the loudspeaker combination to the terminal, forms therewith a voltage divider circuit; and
- a measurement device configured to measure a complex measured voltage drop in the voltage divider circuit and to ascertain a condition of the treble loudspeaker of the loudspeaker combination.
- 19. (New) The diagnostic circuit as recited in claim 18, wherein the measuring resistor is between the HF signal-generating device and the terminal, and the measurement device measure a measured voltage drop substantially at the loudspeaker combination.
- 20. (New) The diagnostic circuit as recited in claim
- 19, further comprising:
- a capacitor connected between the measuring resistor and the terminal.

- 21. (New) The diagnostic circuit as recited in claim 18, wherein the HF signal-generating device includes an HF signal source configured to output an HF input signal, and a downstream impedance converter that is configured to be switched on by a DC voltage diagnostic signal.
- 22. (New) The diagnostic circuit as recited in claim 21, wherein the impedance converter includes an emitter follower transistor that is configured to receive the HF input signal and the diagnostic signal.
- 23. (New) The diagnostic circuit as recited in claim 22, wherein a current source which includes a second transistor configured to be switched on by the diagnostic signal is an emitter resistor of the emitter follower transistor, a collector of the second transistor is connected to an emitter of the emitter follower transistor, an emitter of the second transistor is grounded through a resistor, and a base of the second transistor is configured to be activated by the diagnostic signal.
- 24. (New) The diagnostic circuit as recited in claim 23, wherein the base of the second transistor is configured to be activated by the HF input signal.
- 25. (New) The diagnostic circuit as recited in claim 18, wherein the measurement device is configured to ascertain a peak value of the measured voltage.
- 26. (New) The diagnostic circuit as recited in claim 24, wherein the measurement device includes a resistor connected to the terminal device, a capacitor connected to the resistor, and an evaluation device.

- 27. (New) The diagnostic circuit as recited in claim 18, wherein the measurement device includes a rectifier circuit configured to rectify the measured voltage and output a rectified measured voltage signal to an evaluation device.
- 28. (New) The diagnostic circuit as recited in claim 26, wherein the rectifier circuit includes a series circuit including a resistor, a capacitor, and a Schottky diode, the series circuit being grounded through a second capacitor.
- 29. (New) The diagnostic circuit as recited in claim 18, wherein the measurement device is configured to deduce a short circuit of the treble loudspeaker when a low measured voltage is ascertained, a correct condition of the treble loudspeaker from a moderate measured voltage, and an interruption at the treble loudspeaker from a high measured voltage.
- 30. (New) The diagnostic circuit as recited in claim 18, wherein the measuring resistor is a purely ohmic resistor.
- 31. (New) A method for testing a treble loudspeaker of a loudspeaker combination, comprising:

outputting a high frequency (HF) voltage signal to a voltage divider circuit made up of a measuring resistor and the loudspeaker combination;

measuring a complex measured voltage drop in the voltage divider; and

deducing a condition of the treble loudspeaker from the measured voltage.

- 32. (New) The method as recited in claim 31, wherein the measured voltage is measured as a voltage drop at the loudspeaker combination.
- 33. (New) The method as recited in claim 31, wherein a short circuit at the treble loudspeaker is deduced when a low measured voltage is ascertained at the loudspeaker combination, a correct condition of the treble loudspeaker is deduced when a moderate measured voltage is ascertained at the loudspeaker combination, and an interruption at the treble loudspeaker is deduced when a high measured voltage is ascertained at the loudspeaker combination.
- 34. (New) The method as recited in claim 30, wherein a peak value of the complex measured voltage is measured and subsequently evaluated.
- 35. (New) The method as recited in claim 31, wherein the complex measured voltage is rectified and subsequently evaluated.